

UNITED FEDERATION OF PLANETS

Diameter- 480 parsecs
 Volume- 57,905,836
 Average Star Density- 0.097 stars per cubic parsec
 Total Star Population- 5,629,000
 Number of Inhabited Star Systems- 1,355
 Number of Member Star Systems- 29
 Number of Affiliated Star Systems-771
 Number of Independent or Neutral Star Systems-544
 Number of Hostile Star Systems- 11
 Total Sentient Population (2260 census)- 71.8 billion

GENERAL DESCRIPTION

On May 8, 2127, the United Federation of Planets was formed as a loose political alliance of five star systems, encompassing a spherical territory 90 parsecs in diameter (roughly 380,000 cubic parsecs) centered on Sol. With the advent of time-warp star drive in 2161 and the accession of Rigel in 2166, the Federation was redefined to include its present territories; the center, by interstellar agreement, became a point on the galactic plane equidistant between planar projections of Rigel, Deneb and Antares. Currently, the border of the Federation is disputed by several other political units, including the Klingon Empire, Tholian Assembly, and Gorn Hegemony. The Federation also contains within its volume a number of unfriendly star systems, such as the Kzinti Patriarchy and the Melkotians, as well as a number of independent star systems, both human and non-human.

NAMED PLANETS AND THEIR PRIMARIES

ALONDRA	PALLAS XIV
AMUSEMENT PARK PLANET	OMICRON DELTA
ANDOR	EPSILON INDI
ARDANA	MU LEONIS
AURELIA	XI HERCULIS
BABEL	WOLF 424
BARLOW'S PLANET	UFC 41968
BETA 111	UFC 611-BETA
BEYARIDE	PALLAS XIV
CAIT	15 LYNCIS
CATULIA	THETA PICTORIS
CERRERUS	ETA LUPI
COLONY 5	ETA SERPENTIS
DESERT PLANET	UFC 328877
DRAMIA	DRAMEN
EDEN	UFC 3676543
EDOS	92 TRIANGULI-RHO
892-1V	UFC 892
EKOS	M 43- ALPHA
ELAS	TELLUN

NAMED PLANETS AND THEIR PRIMARIES

GIDEON
HANSON'S PLANET
HOLBEG 9176
IOTIA
KAFERIA
KAZH
M PLANET
MAD PLANET
MATILLES
MARS
MOTHERLODE
MUDD
NEURAL
ONLIES
OPHIUCHUS COLONY
ORION
REMUS
SARPEIDON
SHERMAN'S PLANET
TAURUS 11
TELLAR
TERRA
TERRATIN
TIBURON
THEBES
TRIACUS
TRISKELION
TROYIUS
TYPERIAS
URSULA
VENDIKAR
VERDANIS
VIAN
VULCAN
ZEON

DELTA DORADO
UFC 28 48832
OMEGA
SEGMA IOTIA
TAU CETI
KLINGON
UFC 3897381
UPSILON MENSÆ
PALLAS XLV
SOL
ACADIA
UFC 257704
ZETA BOOTES
UFC 345518
BETA OPHIUCHI
RIGEL
ROMULUS
BETA TAURI
UFC 24187
BETA TAURI
61 CYGNI
SOL
BETA CEPHEI
OMEGA FORNACIS
SAURIA
EPSILON INDI
M 24- ALPHA
TELLUN
LAMPBDA PERSEI
B VELA
EMINIAR
EPSILON PEGASI
MINARA
40 ERIDANI
M 43- ALPHA

FEDERATION MEMBERS

SOL 2127	-	YELLOW STAR	CLASS B FACILITY
VULCAN 2127	-		
TELLAR 2127	-		
ANDOR 2127	-		
ALPHA CENTAURI 2127	-		
ALPHA 2129	-		
VEGA 2132	-		
DENEK 2149	-		
MARCOS 2152	-		
IZAR 2157	-		
RIGEL 2166	-		
CAIT 2172	-		
ANTOS 2175	-		
CATULLA 2176	-		
TIBURON 2181	-		
EDOS 2185	-		
MERAK 2193	-		
ALDEBARAN 2207	-		
ARDANA 2215	-		
ARGELIUS 2221	-		
DARAN 2230	-		
BETA OPHIUCHI 2234	-		
AURELIA 2239	-		
CYGNET 2242	-		
MANTILES 2248	-		
AXANAR 2249	-		
MEDUSA 2259	-		
CORIDAN 2264	-		
DELTA 2267	-		

THESE ARE THE EXISTING MEMBERS OF THE UNITED FEDERATION OF PLANETS.(29)

STAR SYSTEM DATA

AL RIJIL (Alpha Centauri) (24.6, 62.5, -1.0)

A triple system, with seven planets orbiting a pair of yellow stars. the third star is a red dwarf. the fourth, fifth, and seventh planets are class M, and all support humanoid life (class 4 facilities). The seventh planet was already inhabited when the system was first explored .2039, apparently by descendants of ancient Greeks transported from Sol 3 in the third century B.C. This planet became the home of Zefram Cochrane in his later years, until his disappearance on his last voyage in 2089. Alpha Centauri was one of the five founding systems of the Federation and now supports a population of 21 billion— second only to the Sol system.

ANDOR (Epsilon Indi) (25.8, 60.1, -2.4)

An orange dwarf with nine planets (class 3 facilities), Epsilon Indi is the home world of the Andorian race, an insectoid species that was the third intelligent civilization contacted by man. Although in a feudal state when contacted, approximately D- on the Richter Scale, the Andorians quickly assimilated Earth technology, and are now a major Federation member. In addition to the Andorians, who evolved on the eight planet, Epsilon Indi 3, or Triacus, was once the seat of a pirate empire, composed of several humanoid cultures, that became extinct shortly before the Vegan Tyranny. Triacus, although Class M, is uninhabited. Pop: 17.2 billion

DENEK (Alpha Cygni) (142.7, -143.4, 382.5)

A major star system with a population of over 29 billion, Deneb ranks with Sol and Rigel as one of the major cultural centers of the Federation, and its location above the galactic ecliptic makes it one of the most remote of Federation members. A system of five planets orbiting a white supergiant in a binary system (class 4 facilities), planets 2, 4, and 5 are Class M and support intelligent life. Deneb 3 is Class N, and has several interesting nonsapient life-forms. Deneb 2 has an advanced native population with a population of about 1.8 billion, and is on the verge of interstellar flight, with a Richter rating of G-. Deneb 4 has a small Federation colony (Pop. 17,000) and supply base, but is largely unspoiled wilderness. Deneb 5 is the most heavily populated world in the system, and is a major Federation port with a Star Fleet training Academy of Sciences. Originally a colony of Deneb 2, it still supports a large Denebian population.

40 ERIDANI (19.5, 60.0, -0.6)

A triple star system composed of a large orange star and two dwarf companions, the 40 Eridani system has two planets, both circling the orange primary. The first planet is Vulcan, a large, Class M world with a high surface gravity and temperature, the home world of an advanced and highly intelligent civilization that predates mankind by several millennia. The Vulcanoid species is the second most common humanoid type in the Federation. The Vulcan Science Academy and several large port cities are located on this planet, and almost a fifth of the system's population of 14.9 billion lives in the system's heavily industrialized asteroid belt. The other planet of 40 Eridani A is an airless Class J planet with a population under 50,000. (class 4 facilities)

TELLAR (61 Cygni) (25.0, 60.1, 2.5)

Tellar is the fifth world of eight orbiting 61 Cygni A, an orange dwarf in a binary system (class 3 facilities). The home of an intelligent porcine species, Tellar is one of the founding worlds of the Federation and was one of the first inhabited planets discovered by Sol 3 explorers. Tellarites, although belligerent by nature, have an advanced technology and are superb engineers. Pop: 11.8 billion

RIGEL (Beta Orions) (-209.9, 7.7, -136.0)

This quadruple star system includes two stars of interest, a blue-white super-giant and a somewhat smaller blue-white giant, and supports a total of thirteen planets, six of which are inhabited (class 3 facilities). This remarkable number of Class M worlds is attributed to the star's extensive habitable zone, and to the Hakei radiation belt which surrounds the system's primary and shields against the lethal radiation emitted by the B spectral class super giant. Rigel 2 and Rigel 4, sometimes called the Rigel Colonies, were settled by humans within the last two centuries, and are now major Federation worlds with a combined population in excess of 8 billion. Rigel 5 is inhabited by a peaceful humanoid culture (pop: 1.2 billion) that is thought to be an offshoot of the Vulcan race, and has been a Federation member since the 2180s. Rigel 6 and 7 are a double planet system in a trojan orbit. Rigel 7, a large Class M world, is inhabited by a belligerent neanderthaloid race called the Kalar, rating about D on the Richter Scale (pop: 10,000). Rigel 8, also known as Orion, is one of the very few inhabited ringed worlds, and supports a native humanoid population of aggressive, yellow-skinned warriors (pop: 5.4 billion). Given interstellar travel by Earth explorers before the implementation of the Prime Directive, the Orions colonized the two planets of Rigel's blue giant secondary star, and then went on to form a pirate empire trading primarily in Orion females, semiintelligent and green-skinned, but prized for their aggressiveness. This slave trade was ended in the 2250s by Federation intervention, and more recently, the decision to let the Orion worlds remain neutral has been questioned. Rigel 12 is a class G desert planet with large deposits of dilithium, and supports a small mining colony (pop: 6).

ALDEBARAN (Alpha Tauri) (10.6, 56.5, -15.1)

Located on the third planet of four orbiting an orange giant in a binary star, the Aldebaran Colony is a major Federation port, with class 3 facilities. The system also contains a red dwarf star orbiting the primary at 97.5 billion kilometers. The New Aberdeen Naval Yards are sixth largest in the Federation, and the unspoiled wilderness is a popular tourist attraction. A small native population (under one million) is centered around New Aberdeen, which also has a Star Fleet supply center and several private shipyards. Native life, such as delicious Aldebaran shell-mouth, is generally simple.

ALPHA (28.5, 52.8, 19.0)

Alpha 3 is a system of five planets orbiting a moderate size yellow star (class 2 facilities), is a Federation Member, and one of the seven members of the Federation's security council. Established in the 22nd Century as colony Terra Four, the Statutes of Alpha 3 is considered to be the most important political document since the Fundamental Declaration of the Martian Colonies, and provided for an independent star system modeled loosely after Plato's "Republic." Pop: 179 million

SOL (23.9, 01,

SOL (23.9,61.8,0.0)

A moderate size yellow star orbited by ten planets (class 4 facilities). The third planet, Terra or Earth, is extensively populated, and is the home world of the human species. One of the founding worlds of the UFP, Terra is a major cultural and scientific center, and one of the most technologically advanced planets in the Federation. Star Fleet, a successor to the Terran UESPA, is based in the port city of San Francisco. Terra's only natural satellite, Luna, is also extensively populated, and the underground city of Lunaport is the fifth largest in the Federation. Sol 4, or Mars, is a class K planet in the process of being terraformed for surface habitation, and a number of colonies with a total population of 580 million have been independent from Terran authority since the early 21st century. Extensive mining colonies are also located on Mercury (Sol 1), Ceres, and Ganymede. Total system population: 31 billion

DARAN (-127.5, -139.2, -19.7)

A moderate orange star orbited by ten planets (class 3 facilities). Daran is a Federation member with a humanoid population of 3.7 billion on the fifth planet. Originally an Earth colony, Daran has a large Deltan and Tellarite population as well, and is a major industrial center in a remote and relatively unpopulated quadrant.

VEGA (Alpha Lyrae) (28.2, 61.3, 6.9)

A large white star with ten planets (class 1 facilities), the ninth of which is Class M and is inhabited by both an advanced humanoid race and a small human settlement. Neither group is native, although the humanoids (a colony of the planet Delta 3) predate the Federation settlement by almost a century. The race native to Vega 9 is now believed to be extinct, but once controlled a large volume of space as what is now called the Vegan Tyranny. The nature of the Vegans is unknown, and it has been speculated that they were inorganic, or even cybernetic, in composition. Pop: 280 million

ANTOS (18.1, -20.4, -6.1)

A yellow giant with five planets, with the fourth being Class M (class 0 facilities). Antos is the home of a humanoid race that is considerably older than mankind and has little interest in contact with the Federation. Like the Vendorians, the inhabitants of Antos 4 have perfected the technique of cellular metamorphosis, and can rearrange their cellular structures to imitate that of any object of about the same size and mass. The Antosians have not been extensively studied, but their population appears to be under 100,000.

ARGELIUS (-154.7, -59.2, -121.2)

The second planet of ten orbiting a yellow star in a binary system, Argelius 2 (class 2 facilities) is well known for its hospitality and for the peaceful nature of its inhabitants. Since their Great Awakening two centuries ago, Argelians have deplored violence, and welcome space travelers of any affiliation. Pop: 1.7 billion

MARCOS (26.9, 82.8, -2.2)

The twelfth planet of twelve orbiting a moderate size red-orange star (class 1 facilities), Marcos supports a mixed humanoid population, of humans, Vulcans, and Vegans, that has developed a viable form of anarchistic government. Although a Federation member, the colony of about six million is largely self-sufficient, and has resisted entry into the interstellar market.

IZAR (Epsilon Bootis) (36.7,84.7,17.6)

The third planet of five orbiting a small orange star in a binary system, Izar is a heavily populated world with class 3 facilities. The other star in the system is a small blue one. An early Earth(Sol 3) colony, Izar is now an independent world within an industrial sector of the Federation. A Star Fleet training base and several large cities are located on the major continent of Pangaea. Pop: 11.5 billion

Tiburon (Omega Fornacis) (-121.9,-207.4,236.4)

The third planet of seven orbiting Omega Fornacis A, a dim red dwarf in a binary system (class 3 facilities), Tiburon is the home world of an advanced humanoid race that is one of the most distant members of the Federation. Although the natives exhibit several physiological differences from the pan-humanoid norm, they are essentially human. It has even been suggested that they are a mutated form of homo sapiens, as Tiburon was also the name of a 20th century suburb of the Terran city of San Francisco. Pop: 891 million

MERAK (11.2,72.7, 17.1)

The second planet of four orbiting a moderate white star (class 2 facilities), Merak is an agricultural world colonized c. 2218 Pop: 3,900

ARDANA (Mu Leonis) (8.5, 106.3,9.8)

A Federation member, Ardana is the third planet of three circling Mu Leonis A, a red star in a binary system (class 1 facilities). Ardana's humanoid population, contrary to native tradition, is probably not native; early colonists, rather than endure life on the planet's inhospitable surface, constructed the remarkable antigravity city of Stratos. Unfortunately, the ground dwellers, or "troglytes", were forced to go through a separate and unequal evolution in the zeinite mines, and the planet now supports two widely disparate castes. The caste differences are now being eliminated at Federation request. Pop: 600,000

CHELEB (Beta Ophiuchi) (56.2,65.7,20.1)

The sixth planet of nine orbiting Beta Ophiuchi, an orange supergiant (class 1 facilities), is a Class M world that supports a small pergium mining colony commonly known as the Ophiuchus Colony. Pop: 28

CYGNET (54.5,-30.0-22.4)

A binary system consisting of a blue-white giant and a red dwarf, Cygnet supports fifteen planets, and one inhabited Class M world (Cygnet XLV). A Federation member, Cygnet XLV is a highly advanced technological world with a matriarchal society (Cygnetian males are only semi-intelligent). Cygnet has a Star Fleet support base with class 3 facilities, run entirely by females.

AXANAR (-51.5,5.2,-8.1)

The first planet of three orbiting a yellow dwarf (class 1 facilities), Axanar supports a primitive native population (D- on the Richter Scale) that allied itself with the Klingon Empire during the Four Years War in the 2240's. Efforts by the Klingons to construct a naval base on Axanar resulted in the famous blockade of the system by Captain Garth; later, the Axanar Peace Mission established the current Federation-Klingon border, and insured the neutrality of Axanar. Pop: 150 million

MEDUSA (27.2, 137.6, -41.3)

A binary system composed of bright white star and a yellow dwarf companion (class 2 facilities), Medusa supports a system of eight planets, the fourth of which is inhabited. Although Medusa IV has been surveyed only by unmanned probes, it is typical for a Class C world, the surface blanketed in dense layers of carbon dioxide. The Medusans, intelligent non-corporeal life-forms, have followed a unique evolutionary path and seem to be largely electromagnetic in nature. Contact between Medusans and the Federation has been brief (the planet was discovered c. 2257), but they have already demonstrated an extremely advanced scientific culture, and telepathic powers unlike any others in the known galaxy.

CORIDAN (29.7, 64.3, 29.9)

The Coridan system has a total of four inhabited worlds, more than any other system except for Rigel and Sol. The humanoid life-forms native to Coridan evolved on the third world of a system of ten planets orbiting a red dwarf (class 1 facilities). After the development of interplanetary flight, colonies were established on the fourth, seventh, and ninth planets, Class M, F, and G worlds respectively. Rich dilithium deposits were recently discovered on Coridan IX, the most thinly-populated planet in the system. Total pop: 790 million

NO CURRENT INFORMATION ON THE FOLLOWING FEDERATION MEMBERS:

CAIT:yellow binary star	*
CATULLA:white binary star	*
EDOS:yellow supergiant star	*
AURELIA:yellow giant star	*
MANTILLES:white binary star	*
DELTA:white star	*

INFORMATION ON FEDERATION

QUADRANT 0

Diameter- 180 parsecs

Volume- 3,053,628 cubic parsecs

TYPICAL QUADRANT

Maximum Diameter

-339.4 x 240.0 x 176, 4 parsecs

Volume- 6,856,526 cubic parsecs

TYPICAL SECTOR

Number of Sectors per Quadrant - 1500

Volume - 4,571 cubic parsecs

STARSHIP PATROL REGIONS		
REGION	STARSHIPS *	
Quadrant 0	U.S.S. Potemkin	NCC-1702
Quadrant 1 North	U.S.S. Intrepid	NCC-1631
Quadrant 2 North	U.S.S. Valiant	NCC-1623
Quadrant 3 North	U.S.S. Exeter	NCC-1672
Quadrant 4 North	U.S.S. Yorktown	NCC-1717
Quadrant 1 South	U.S.S. Farragut	NCC-1647
Quadrant 2 South	U.S.S. Constellation	NCC-1017
Quadrant 3 South	U.S.S. Enterprise	NCC-1701
Quadrant 4 South	U.S.S. Defiant	NCC-1764

*Four Starships-- Constitution (NCC-1700), Excalibur (NCC-1664), Hood (NCC-1703) and Lexington (NCC-1709)-- have been given military or defense assignments. Republic (NCC-1371) is currently used as a cadet training vessel.

KLINGON EMPIRE

The inner systems of the Klingon Empire are illustrated here to the extent of Federation intelligence data. The Klingon home planet, Kozh, the second planet of an orange binary star, is protected by a ring of eight heavily-armed battle stations at a distance of about 40 light-years. These stations also serve as bases for the warships that patrol Klingon space.

ROMULAN STAR EMPIRE

The Romulan Neutral Zone, ten light years in width and extending a maximum of 50 light-years into Federation space, negotiated over subspace radio in 2162, is protected on the Federation side by a series of asteroid outposts that monitor traffic on both sides. Entry into the zone by either side constitutes an act of war under the terms of interstellar treaty.

PLANETARY CLASSIFICATION

CLASS	SURFACE	ATMOSPHERE	DESCRIPTION
A	Tenuous, may not be present	Reducing methane, etc.	Radiates heat, "failed" star
B	Tenuous, may not be present	Reducing	Non-radiant
C	Iron/silicate	Reducing, dense	High surface temperature
D	Metallic/silicate	Fluid, very dense	Small, young
E	Silicate, some metals	Reducing/oxidizing	Large molten core
F	Silicate, some metals	Oxidizing	Very young (less than 100 million years)
G	Silicate	Oxidizing, thin	Desert Planet
H	Silicate	Variable	Geologically active
I	Nickel-iron/silicate	(A-G) none; (H-N) tenuous	Asteroid
J	Silicate	Very tenuous; noble gasses	Moons
K	Silicate	Tenuous; some water	Adaptable with pressure dome
L	Silicate/water	Oxidizing	Geologically inactive
M	Silicate/water	Oxidizing	Geologically active
N	Water entirely	Oxidizing	Pelagic planet

SPACE CRUISER

Space Cruisers like the S.S. Aurora have been in use for over a century, and are based on a Vulcan design originally used for interplanetary travel. Essentially a twenty one-meter-long space yacht., space cruisers have a range of several dozen parsecs and can carry provisions for up to six passengers and crew.

THOLIAN SPACE CRUISERS

Although contact with the Tholians has been minimal, the basic design of their only known type of space vessel is believed to be a modified Federation space cruiser. Two Tholian vessels have the unique capability of producing an energy filament that can be woven into an immobilizing tractor web.

KLINGON BATTLE CRUISER

The "Klölode" Class Battle Cruiser is the equivalent of the Federation Starships, and although smaller (216 meters), it boasts a crew complement of 454 and weaponry at least as sophisticated as Federation phasers and photon torpedoes. Due to a recent alliance

recent alliance, Romulans are equipped with Klingon-made battle cruisers, and some Klingon vessels now employ the Romulan cloaking device.

ROMULAN "BIRD OF PREY"

The "Empire" Class Cruiser (or "Bird of Prey," for the elaborate design of the vessel's underside) is only 68 meters long, but is a highly effective warship with a powerful plasma weapon that has proven effective against most Federation defenses. With a crew of 206, the vessel's accommodations are spartan, and its range is sharply limited by fuel supply.

DEEP SPACE STATION

A total of seventeen K-Class Deep Space Stations are scattered around the periphery of Federation space, and serve as drydocks and resupply centers in areas where there are no inhabited star systems. The station's facilities include luxury accommodations, a shopping mall, sports arena, theaters, casino, restaurants, and a park complex.

KLINGON MARKER BUOY

These buoys, located on the Klingon frontier, serve the same function as Federation regional marker buoys, but are also remote surveillance or "spy eyes": they continually monitor the Federation border, and when necessary can summon support vessels via subspace radio.

REGIONAL MARKER BUOY

These beacons are located at the corners of Federation sectors and broadcast the sector identification code in six directions. The transmitters are located in the spherical section, and the power source and drift correction rockets are contained in the hexagonal apron.

SUPPORT FACILITIES

Throughout Federation Space, a series of support facilities have been established, including star bases, deep space stations, and outpost monitoring stations. Star bases are major military resupply and refitting installations. They contain the supplies, equipment, and personnel needed to repair and outfit any Star Fleet vessel. In addition, they provide training and recreation areas, administrative offices for local command posts, and living quarters for station personnel. Star bases are nearly always located on the surface of a planet because of the size of the facilities and the large amounts of raw materials needed for their operation. They are placed as closely as possible to central points in the Federation grid structure. Currently, there are twenty-eight star bases in Federation Space, and new bases are being constructed at the rate of about two per year.

Deep space stations are major civilian repair, resupply, and refueling facilities, and are also used by military vessels when the elaborate facilities of a star base are not necessary. The stations have been strategically located in regions where there are no inhabitable star system or repair facilities within a reasonable travel distance. Since deep space stations cater to large numbers of passengers, the recreational facilities are more elaborate than those usually found at star bases.

K-Class space stations are located in remote and little-developed regions of the Federation, and are intended for the support of colonization efforts on the Federation frontier. This role requires the station to have large storage areas for supplies being shipped to the colonies, as it would be uneconomical for large cargo ships (the only kind that can reach the frontier) to visit each colony. With a central distribution point,

the colonies can obtain supplies as needed with little delay and at lowest cost. These stations have extensive refueling facilities, since new colonies generally do not have their own fuel-producing plants.

Outpost monitoring stations are small installations established by Star Fleet to keep watch over sensitive regions of the Federation. A monitoring station may be based on a planet, or located in an asteroid moved to the desired position, and normally consists of a large sensor array, support equipment, and crew quarters. For the most part, monitoring stations are located along the foreign boundaries in the Federation, such as those along the Romulan Neutral Zone. Recently, the Epsilon series of monitoring stations were constructed near the boundary of the Klingon Empire to gather intelligence data and watch for any violation of the Organian Peace Treaty. Due to the classified nature of the function and their limited facilities, they are normally off limits to civilian craft.